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I. *A Paper of the Honourable Robert Boyle's, deposited with the Secretaries of the Royal Society, Octob. 14. 1680. and opened since his Death ; being an Account of his making the Phosphorus, &c.*

Sept. 30. 1680. **T** Here was taken a *considerable quantity* of *Man's Urine*, (because the Liquor yields but a small proportion of the desired *Quintessence*) and of this a good part at least, had been for a pretty while digested before it was used. Then this Liquor was distilled with a moderate Heat, till the *Spirituos* and *Saline* parts were drawn off ; after which the *Superfluous* Moisture also was abstracted (or evaporated away) till the remaining Substance was brought to the consistence of a somewhat thick *Syrup*, or a thin *Extract*. This done, it was well incorporated with thrice its Weight of fine *White Sand* ; and the Mixture being put into a strong *Stone-Retort*, to which a large *Receiver* (in good part fill'd with Water) was so joyn'd, that the Nose of the Retort did almost touch the Water : Then the two Vessels being carefully luted together, a naked Fire was gradually administred for Five or Six Hours, that all that was either *Phlegmatick* or *Volatile* might come over first. When this was done, the Fire was encreased, and at length for Five or or Six Hours made as strong and intense as the Furnace (which was not bad) was capable of giving : (which Violence of Fire is a Circumstance not to be omitted in this Operation.) By this means there came over good store of white Fumes, almost like those that appear in the Distillation of the Oyl of *Vitriol* ; and when

when those Fumes were pass'd, and the *Receiver* grew clear, they were after a while succeeded by another sort that seem'd in the *Receiver* to give a faint blewish Light, almost like that of little burning Matches dipt in Sulphur. And last of all, the Fire being very vehement, there pass'd over another Substance, that was judg'd more ponderous than the former, because it fell through the Water to the bottom of the *Receiver*; whence being taken out, (and partly even whilst it stay'd there, it) appeared by several Effects, and other *Phænomena*, to be such a kind of Substance as we desired and expected.

II. *Problema Florentinum, de mira Templi Testudine Quadrabili. A Doctissimo Dno. Johanne Wallis, S. T. D. Solutum.*

Libet hic subjungere, Problema quoddam (interventu Clarissimi Viri D. *Guilielmi Bridgman*) ad me transmissum, de mira cujusdam Templi Testudine Quadrabili, meamque ejusdem Solutionem, cum subjuncto Scholio eam explicante.

D. *Guilielmi Bridgman* ad me Epistola, erat (Latine reddita) ad hunc sensum;

Reverendo Viro, D. Wallis S. T. D. Geometriae Professori, Oxonii.

Augusti 30. 1692.

Inclusam chartulam (Reverende Vir) Florentia mihi missam, ut ad te deferatur (de qua sententiam tuam expectant